

# Dr PR Sathesh Babu

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## **Research Interests: [100 WORDS]**

Preformulation studies includes solubility behavior, cosolvency, micellar solubilization etc.,  
Methods to increase bioavailability of poorly water soluble drugs;  
Solid state manipulations – cocrystals;  
Novel drug delivery systems – osmotic systems; liquisolid compacts.

## **Education:**

1. PhD. [2003-2008]: Pharmacy, Department of Pharmacy, Annamalai University, Chidambaram, India
2. M. Pharmacy [1998-1999]: Industrial Pharmacy, Department of Pharmacy, Annamalai University, Chidambaram, India
3. B. Pharmacy [1993-1997]: Sri KV College of Pharmacy, Chickballapur, Bangalore University, India

## **Research Funding:** Total INR ₹30 Lakh

1. Principal Investigator, "Pharmaceutical cocrystals of BCS Class-II drugs for improved physicochemical properties" funded by All India Council for Technical Education (AICTE), Government of India, under Research Promotion Scheme [Amount Sanctioned: INR ₹16,00,000; 2013-2015]
2. Co-Coordinator, "Current trends in pharmaceutical product development including regulatory affairs" sponsored by AICTE, Government of India, under Faculty Development Program [Amount Sanctioned: INR ₹7,00,000; 2013]
3. Co-Coordinator, "Industry Institute Partnership Cell (IIPC)" sponsored by AICTE, Government of India, [Amount Sanctioned: INR ₹7,00,000; 2010-2014]

## **Professional Recognition, Awards, Achievements:**

1. Best paper award for the oral session of Biofest-2012, held at Hyderabad, India.

## **Representative Publications:**

1. Monika Nijhawan, Santhosh A, Sathesh Babu PR and Subrahmanyam CVS. Solid state manipulation of lornoxicam for cocrystals – physicochemical characterization. *Drug Dev. Ind. Pharm.* Early Online; 2013; 1-10. [PubMed PMID: 23829186].
2. Meena Kharwade, Achyuta G, Subrahmanyam CVS, and Sathesh Babu PR. Solubility behavior of lornoxicam in binary solvents of pharmaceutical interest. *J. Sol. Chem.* 41 (8); 2012; 1364-1374.
3. Meena Kharwade, Subrahmanyam CVS, and Sathesh Babu PR. Total and partial solubility parameters prediction: Lornoxicam in individual solvents. *J. Pharm. Res.* 07; 2013. 409-413.
4. Panikumar AD, Sunitha G, Venkataraju Y, Sathesh Babu PR and Subrahmanyam CVS. Development of dissolution test method for drotaverine hydrochloride / mefanamic acid combination using derivative spectrophotometry. *Trop. J. Pharm. Sci.* 12 (02); 2013; 227-232.
5. Guru, S.K., and Sathesh Babu, P.R. Design and evaluation of tizanidine buccal mucoadhesive patches. *J. Appl. Ph. Sci.* 02 (04) 2012; 74-81.
6. Meena Kharwade, Mahitha, Subrahmanyam CVS, and Sathesh Babu PR. Cosolvency – An approach Solubility enhancement of lornoxicam. *J. Pharm. Res.* 05 (08); 2012. 4204-4206.
7. Panikumar AD, Sunitha G, Venkataraju Y, Sathesh Babu PR and Subrahmanyam CVS. Development of dissolution test method for drotaverine hydrochloride / mefanamic acid combination using derivative spectrophotometry. *Trop. J. Pharm. Sci.* 12 (02); 2013. 227-232.

## **Conference Publications: [Selected 5 oral/poster presentations]**

1. 57<sup>th</sup> IPC, 2005, Hyderabad, India. P.R. Sathesh Babu, J. Thimmasetty, K. Valliappan, R. Manavalan, C.V.S. Subrahmanyam. Solubility behaviour of rofecoxib in different solvent blends.

2. 59<sup>th</sup> IPC, 2007, Varanasi, India. P.R. Sathesh Babu, J. Thimmasetty, K. Valliappan, R. Manavalan, C.V.S. Subrahmanyam. Solubility behaviour of meloxicam in different solvent blends.
3. 60<sup>th</sup> IPC, 2008, New Delhi, India. A.P. Basavarajappa, Sanjoy Mandal, J. Thimmasetty, C.V.S. Subrahmanyam, A.R. Annamalai, P.R. Sathesh Babu. Mutual Interaction of Drugs at Molecular Level – Its implications Pharmacotherapy.
4. 63<sup>rd</sup> IPC, 2011, Bengaluru, India. Panikumar AD, Sunitha G, Sathesh Babu PR, Subrahmanyam CVS. Simultaneous estimation of Drotaverine hydrochloride and mefenamic acid and evaluation of their fixed dose tablets for dissolution behaviour.
5. Biofest-2012, Hyderabad, India. Panikumar AD, Sirisha N, Sathesh Babu PR, Subrahmanyam CVS. Development and validation of dissolution test for telmisartan and amlodipine besylate combined tablet dosage form by application of synchronous first derivative spectrofluorimetry.

**Life Member of the Following National Societies:**

1. Indian Pharmaceutical Association (KTK/BAN/LM/0384; dated: 09-02-2010)
2. Association of Pharmaceutical Teachers of India (AP/LM-095)